AMENDMENTS TO THE CLAIMS

Please amend the claims as follows. A detailed listing of all claims that are, or were, in the application is presented below. Changes in the currently amended claims are shown by strikethrough for deleted matter and underlining for added matter.

Claims:

1.-8. (Cancelled).

9. (Currently Amended) A method for monitoring the vital signs ~~or other electrical impulses~~ of a subject comprising applying ~~the~~ a fabric-based sensor ~~of claim 1~~ to the subject and connecting the ~~connector~~ sensor to a monitor, the fabric-based sensor comprising:

(a) a knitted or woven fully-conductive fabric including one or more individually conductive fibers integrated therein by the process of knitting or weaving the fabric, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers; and

(b) an electrical lead for connection to a connector, the electrical lead being formed from one of the integrated individually conductive fibers; and

(c) a connector connected to the electrical lead.

10. (Currently Amended) ~~A~~ The method of Claim 9, the fabric-based sensor having conductive paste between the electrical lead fiber and the connector.~~for monitoring the vital signs or other electrical impulses of a subject comprising applying the fabric based sensor of claim 2 to the subject and connecting the connector to a monitor.~~

11. (Currently Amended) ~~A~~ The method of Claim 9, further comprising the step of ~~for~~ providing an electrical impulse to ~~a~~ said subject ~~comprising applying the fabric based sensor of claim 1 to the subject,~~ by connecting the connector to an impulse-delivering device, and delivering the impulse through the sensor to the subject.

12. (Currently Amended) ~~A~~ The method of Claim 11, the fabric-based sensor having conductive paste between the electrical lead fiber and the connector. ~~for providing an electrical impulse to a subject comprising applying the fabric based sensor of claim 2 to the subject, connecting the connector to an impulse delivering device, and delivering the impulse through the sensor.~~

13. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising:

applying ~~the~~ a fabric-based sensor ~~of claim 1~~ to the subject, the fabric-based sensor comprising:

(a) a knitted or woven fully-conductive fabric including one or more individually conductive fibers integrated therein by the process of knitting or weaving the fabric, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers; and

(b) an electrical lead formed from one of the integrated individually conductive fibers;

~~connecting the connector to a~~ providing a wearable motherboard, wherein the wearable motherboard is a fabric comprising: a comfort component serving as the base of the fabric; and a sensing component integrated within said comfort component to form the fabric, wherein the sensing component ~~is selected from the group consisting of, individually or in any combination, a penetration detection component and~~ includes an insulated electrical conductive component comprising one or more individually insulated conductive fibers~~; and~~

the electrical lead of the fabric-based sensor being connected to the sensing component of the wearable motherboard; and

gathering vital signs or electrical impulse data from the fabric-based sensor~~sensing component~~.

14. (Cancelled)

15. (Currently Amended) The method of Claim 9~~fabric based sensor of claim 15~~, wherein the individually conductive fibers of the fabric-based sensor are knitted.

16. (Currently Amended) The method of Claim 9~~fabric based sensor of claim 15~~, wherein the individually conductive fibers of the fabric-based sensor are woven.

17. (Currently Amended) The method of Claim 13~~fabric based sensor of claim 15~~, wherein the individually conductive fibers of the fabric-based sensor are knitted.

18. (Currently Amended) The method of Claim 13~~fabric based sensor of claim 15~~, wherein the individually conductive fibers of the fabric-based sensor are woven.

19. (Cancelled)

20. (Currently Amended) The method of Claim 13~~fabric based sensor of claim 14~~, wherein the electrical lead of the fabric-based sensor is connected to the sensing component of the wearable motherboard by a connector. ~~is a snap connector.~~

21.-23. (Cancelled)

24. (Currently Amended) ~~A~~ The method of Claim 13, further ~~for monitoring the vital signs or other electrical impulses of a subject~~ comprising ~~applying the fabric based sensor of claim 14 to the subject and~~ connecting ~~the connector to~~ a monitor to either the fabric-based sensor or the wearable motherboard.

25. (Cancelled)

26. (Currently Amended) A method for monitoring the vital signs or other electrical impulses of a subject comprising:

applying ~~the~~ a fabric-based sensor ~~of claim 14~~ to the subject, the fabric-based sensor comprising:

a knitted or woven conductive fabric including one or more individually conductive fibers and non-conductive fibers integrated therein by the process of knitting or weaving the fabric, each conductive fiber being individually conductive prior to incorporation into the fabric in the absence of a conductive coating applied to the fabric or to the fibers;

~~connecting the connector to~~ providing a wearable motherboard, wherein the wearable motherboard is a fabric comprising: a comfort component serving as the base of the fabric; and a sensing component integrated within said comfort component to form the fabric, wherein the sensing component ~~is selected from the group consisting of, individually or in any combination, a penetration detection component and~~ includes an insulated electrical conductive component comprising one or more individually insulated conductive fibers; ~~and~~

the fabric-based sensor being connected to the sensing component of the wearable motherboard; and

gathering vital signs or electrical impulse data from the fabric-based sensor~~sensing component~~.

27. (Cancelled)

28. (Currently Amended) ~~A~~ The method of Claim 26, further comprising the step of ~~for delivering an electrical impulse to a subject comprising applying the fabric-based sensor of claim 1 to the subject,~~ connecting ~~the connector to~~ an impulse-delivering device to either the fabric-based sensor or to the sensing component of the wearable motherboard, and delivering ~~the~~ an impulse ~~through the fabric-based sensor~~ to the subject.

29.-31. (Cancelled)

32. (Currently Amended) The method of Claim 26~~fabric-based sensor of claim 2~~, wherein the individually conductive fibers of the fabric-based sensor are knitted.

33. (Currently Amended) The method of Claim 26~~fabric based sensor of claim 1~~, wherein the individually conductive fibers of the fabric-based sensor are woven.

34. (New) The method of Claims 26, wherein the electrical lead of the fabric-based sensor is connected to the sensing component of the wearable motherboard by a connector.

35. (New) The method of Claim 9, wherein the fabric-based sensor is integrated into the fabric of a garment.

36. (New) The method of Claim 10, wherein the fabric-based sensor is integrated into the fabric of a garment.

37. (New) The method of Claim 13, wherein the fabric-based sensor and the wearable motherboard are integrated into the fabric of a garment.

38. (New) The method of Claim 13, wherein the fabric-based sensor is separate from the wearable motherboard.

39. (New) The method of Claim 20, wherein the fabric-based sensor and the wearable motherboard are integrated into the fabric of a garment.

40. (New) The method of Claim 26, wherein the fabric-based sensor and the wearable motherboard are integrated into the fabric of a garment.

41. (New) The method of Claim 26, wherein the fabric-based sensor is separate from the wearable motherboard.